# TOSHIBA

## Satellite® P25 Series

*Ultimate digital convergence desktop replacement notebook*

### Feature Model(s):

**Satellite P25-S607**

P4 2800/17.0"Wide XGA/512MB/60GB/DVD Multi/Mdm/LAN/Wi-Fi/WinXP Media Center Edition (MCE)

### Part Number

PSP20U-012RJR

## Product Highlights

### Performance

- Intel® Pentium® 4 processor at 2.80GHz
- 512MB of Main Memory
- 60GB* hard disk drive

### Great Features

- 17.0" Wide XGA active matrix display
- **NVIDIA® GeForce™ FX Go5200**, 64MB DDR video memory
- DVD Multi multi-function drive

### Get On-Line

- Integrated V.92/56K modem
- Integrated 10/100 Ethernet LAN
- Integrated **802.11a/b** Wireless LAN

**Take a Product Tour**
**See these Features in Action**

## System Characteristics

**CPU** *(See CPU Performance Disclaimer)***

- Intel® Pentium® 4 processor; 2.80GHz ******

**L2 Cache**

- 512KB Level 2 Cache integrated on die
- 800MHz Processor System Bus Clock Speed (PSB) / Hyper-Threading Technology support

**Memory**

- 512MB DDR SDRAM **(Expandable to 2048MB)** *(Both slots may be occupied)*
- Expansion memory: 128/256/512/1024MB, 2.5V, SODIMM, PC2100 DDR SDRAM
- Data/Address Bus Width; 64-bit/32-bit
- Intel® 865PE + ICH5 Chipset

**Mass Storage**

- **Primary Hard Disk Drive**: 60GB* hard disk drive, 5400rpm, Enhanced IDE (ATA-5) Interface, 9.5mm height, 0.2lbs,, Service removable
- **Main Module Bay – DVD Multi**: ATAPI Interface; Maximum speed (READ): CD-R(24x), CD-RW(12x), CD-ROM(24x), DVD-ROM(8x), DVD-R(8x), DVD-RW(8x), DVD-RAM(2x); Maximum speed (WRITE): CD-R(16x), CD-RW(4x), HS (High Speed) CD-RW(10x), DVD-R(2x), DVD-RW(1x), DVD-RAM(2x)
  *Compatibility*: CD-ROM, CD-R (read/write), CD-RW (read/re-write), DVD-ROM. DVD-R (read/write), DVD-RW (read/write), DVD-RAM (read/write);
  *Optional Accessories*: DVD-ROM, DVD/CD-RW, DVD-R/RW, DVD Multi, FDD, 2nd HDD); 12.7mm height, user removable
- **2nd Module Bay:** TV-Tuner; (Optional Accessories: Main Battery, DVD-ROM, DVD/CDRW, DVD Multi, DVD-R/RW, weight saver)
- Software Decoder: InterVideo® (WinDVD™)

**Graphics/Video**

- **17.0"** Wide XGA TFT active-matrix display****; internal display supports up to 16M colors at 1440 x 900
- **NVIDIA® GeForce™ FX Go5200** graphics controller; 64MB DDR external video memory
- DirectX 9.0 support, OpenGL support
- External Color Support/Refresh Rate: (Depending on CRT)

| | |
|---|---|
| 800 x 600; | 60/70/72/75/85/100/120Hz |
| 1024 x 768; | 60/70/72/75/85/100/120Hz |
| 1280 x 1024; | 57/60/70/72/75/85/100/120Hz |
| 1440 x 900; | 60/70/72/75/85/100Hz |
| 1600 x 1200; | 60/70/72/75/85/100Hz |
| 1680 x 1050; | 60/70/72/75/85/100Hz |
| 1920 x 1200; | 60Hz |
| 1920 x 1440; | 60Hz |
| 2048 x 1536; | 60Hz |

**Input Devices**

- **Keyboard:** Full sized 85 keys with 12 function keys, 2.7mm key stroke, 6mm height; Dedicated Windows® & Application keys support; HotKey function; **TouchPad** pointing device
- **CD Control Function:** Play/Pause, Stop/Eject, Previous, Skip/Next, Mode Control switch (CD/DVD/Digital Audio)
- **Remote Control for Media Center Edition**
- *Optional:* Toshiba Remote Control: Power On/Shut Down, CD/DVD/Digital Audio play control, Volume Control, Keyboard Emulation, Task change, Maximize Window
- Toshiba Console button & Instant Access Internet button
- One Touch TV-out switch

**Expandability**

- 2 memory slots *(Both slots may be occupied)*
- 2 PC Card slot supports 2 Type II and 1 Type III

**Communications**

- Integrated V.92/56K modem; Data and fax support
- Integrated 10/100 Ethernet LAN
- Integrated 802.11a/b Wireless LAN – (Atheros)

Due to FCC limitations, speeds of 53kbps are the maximum permissible transmission rates during Download. Actual data transmission speeds will vary depending on line conditions.

**Ports**

- RGB (monitor) port
- Parallel port
- 4 Universal Serial Bus ports **(USB 2.0)**
- 2 Infrared port (1 Consumer IR port; 1 FIR port)
- TV-Out (S-Video)
- RJ-45 LAN port
- RJ-11 modem port
- I.Link (IEEE 1394) port
- Secure Digital® (SD) card slot

**Physical Description**

- Dimensions (LxWxH): 16.4" x 11.5" x 1.8"
- Weight: 9.9lbs
- LED Indicators: Power, HDD, 2nd HDD (common with Module Bay device), DVD/CDRW, DC-IN, Caps Lock, Arrow, Numeric, Main Battery Charging Status, System Sleep/Suspend Status, SD Card, Wireless Communication (right side)

**Sound**

- Realtek ALC202 Codec Chip, Software Sound
- 16-bit stereo, Windows Sound System Ver. 2.0; SoundBlaster® Pro compatible (in DOS box only)
- **Built-in harman/kardon Stereo Speakers**
- Direct 3D Sound (supported by sound driver); Hardware acceleration for DirectSound and DirectMusic; Full Duplex and MIDI (play back) support
- Sound Volume (by Dial)
- **Ports:** External Microphone port, headphone port (stereo), Line-in port

**Power Supply**

- **AC Adapter:** 120W AC Adapter, 100-240V / 50-60Hz frequency (Universal) input voltage, 19V x 6.3A Output.
  **Dimensions (LxWxH):** 5.9" x 2.5" x 1.4"
  **Weight:** 1.38lbs
- **Battery Pack: 12**-cell, rechargeable, removable Lithium Ion (Graphite) battery; 14.8V x 6450mAh
  **Dimension (LxWxH):** 5.9" x 5.1" x 0.9"
  **Weight:** 1.41lbs
- Battery Saver (in WindowsXP): Stand by, HDD Auto Off, Display Auto Off, Hibernation
- **Battery Life**: 2.0H ***
  Recharge Time (Off/On): Main Battery– Up to 4Hrs/ Up to 12Hrs

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Battery life may vary depending on applications, power management settings and features utilized. Recharge time varies depending on usage. Battery may not charge while computer is consuming full power. After a period of time, the battery will lose its ability to perform at maximum capacity and will need to be replaced. This is normal for all batteries. To purchase a new battery pack or see information on accessories shipping with your computer, visit the Toshiba website at www.accessories.toshiba.com

**Security**

- Slot for computer lock, HDD and memory (2 screws), Built-in Modem (2 screws), Wireless LAN module (2 screws), Main Module Bay and 2nd Module Bay (both by sliding lock and sliding latch), User Power-on password, Setup Security, Keyboard Lock (by HotKey), Screen Blank (by Hotkey), Screen Saver (by software)

**Bios**

- ACPI, PnP, VESA, DPMS, DDC, SM BIOS, PCI BIOS support

**Operating System**

- **Microsoft® Windows XP Media Center Edition (MCE)** pre-installed
- Microsoft® Windows 2000 component drivers on the web

**Additional Software**

- Microsoft® Works
- Notebook Maximizer
- Panasonic MotionDV Studio™
- Sonic MyDVD™
- Intuit® Quicken® Basic
- Norton® AntiVirus™ 2002
- AOL® (3-month offer)
- Adobe® Acrobat Reader
- AT&T® Worldnet® Service – 1 Month Free
  *Telephone access and other charges and other terms and conditions may apply. Offer available to new customers only. Offer expires 4/30/04.*
- Microsoft Internet Explorer
- Toshiba Custom Utilities
- Satellite Series Online Documentation
- ***Toshiba Great Software Offer*:** Receive your choice of two software titles. The software selection includes titles from the follow categories; productivity, education/reference, creativity and entertainment

**Warranty**

- 1 year parts, labor and battery

**Environmental Specifications**

- **Temperature:** Operating: 5° to 35°C (41° to 95°F); Non-operating: -20° to 65°C (-4° to 149°F)
- **Thermal gradient:** Operating: 15°C per hour maximum; Non-operating: 20°C per hour maximum
- **Relative Humidity:** Operating: 20% to 80% non-condensing; Non-operating: 10% to 95% ono-condensing
- **Altitude (relative to sea level):** Operating: -60 to 3000 meters; Non-operating:-60 to 10,000 meters
- **Shock:** Operating: 10G; Non-operating: 60G
- **Vibration:** Operating: 0.5G; Non-operating: 1.0G

## SelectServ® Warranty Programs

| | |
|---|---|
| SWP-PEQQ3V | Warranty Extension to 3 Years |
| SWP-PEGQ3V | 3 Year SystemGuard |
| SWP-PEQX3V | 3 Year Depot Express |
| SWP-PEGX3V | 3 Year SystemGuard + Depot Express |
| SWP-PEQN3V | 3 Year Business On-Site Repair; Next Day Business Day Response |
| SWP-PEGN3V | 3 Year SystemGuard + Business On Site Repair, Next Business Day Response |

# Product/Part Numbers

Satellite P25-S607 PSP20U-012RJR

# Accessories

## Selected Toshiba Accessories

| | |
|---|---|
| PA3290U-1ACA | Global AC Adapter (120W) |
| PA3291U-1BRS | Primary Battery Pack (12 cell) |
| PA3109U-1FDD | USB Floppy Disk Drive |
| PA3133U-1H40 | 2nd HDD 40GB |
| PA3204U-1H60 | 2nd HDD 60GB |
| PA3230U-1H80 | 2nd HDD 80GB |
| PA3292U-1ETC | Modular Bay HDD Adapter |
| PA3294U-1DV1 | Modular Bay DVD Multi |
| PA3273U-2MPC | Wireless LAN Mini-PCI (802.11a/b – Atheros) |
| PA3271U-1BTM | Bluetooth SD Card II |

## SD (Secure Digital) Memory

| | |
|---|---|
| SD-M3203B3 | 32MB SD Card |
| SD-M6403B3 | 64MB SD Card |
| SD-M1283B3 | 128MB SD Card |
| SD-M2564B3 | 256MB SD Card |

## Kingston Memory

| | |
|---|---|
| KTT3614/128 | Kingston 128MB Memory |
| KTT3614/256 | Kingston 256MB Memory |
| KTT3614/512 | Kingston 512MB Memory |
| KTT3614/1G | Kingston 1GB Memory Module |

## Targus Cases

| | |
|---|---|
| PA1323U-1NCS | Toshiba Roller/BackPack (case only suitable for this notebook) |

* Go to www.accessories.toshiba.com for additional, available accessories

***** GB = 1 Billion Bytes

***** Central Processing Unit ("CPU") Performance Disclaimer:***

CPU performance in your computer product may vary from specifications under the following conditions:

- use of certain external peripheral products
- use of battery power instead of AC power
- use of certain multimedia games or videos with special effects
- use of standard telephone lines or low speed network connections
- use of complex modeling software, such as high end computer aided design applications
- use of computer in areas with low air pressure (high altitude >1,000 meters or >3,280 feet above sea level)
- use of computer at temperatures outside the range of 5°C to 35°C (41°F to 95° F) or >25°C (77°F) at high altitude (all temperature references are approximate).

CPU performance may also vary from specifications due to design configuration.

Under some conditions, your computer product may automatically shut-down. This is a normal protective feature designed to reduce the risk of lost data or damage to the product when used outside recommended conditions. To avoid risk of lost data, always make back-up copies of data by periodically storing it on an external storage medium. For optimum performance, use your computer product only under recommended conditions. Read additional restrictions under "Environmental Conditions" in your product Resource Guide. Contact Toshiba Technical Service and Support for more information.

******** Small bright dots may appear on your TFT display when you turn on your PC. Your display contains an extremely large number of thin-filmtransistors (TFT) and is manufactured using high-precision technology. Any small bright dots that may appear on your display are an intrinsic characteristic of the TFT manufacturing technology.

**Return Policy**

TAIS does not accept the return of component parts, or bundled software, which have been removed from the PC system. Pro-rata refunds on individual PC components or bundled software, including the operating system, will not be granted. If you wish to return a complete PC system, contact the TAIS dealer where you purchased the product, and comply with the dealer's standard return policies and procedures.

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*** **Business Winstone® 2002 BatteryMark™ Version 1.0**

These models achieved the battery life times shown using Ziff Davis Media Inc.'s Business Winstone® 2002 BatteryMark™ Version 1.0. These tests were performed without independent verification by the VeriTest testing division of Lionbridge Technologies, Inc. ("VeriTest"). Neither Ziff Davis Media Inc. nor VeriTest makes any representations or warranties as to the results of the tests. Winstone® is a registered trademark and BatteryMark™ is a trademark of Ziff Davis Publishing Holdings Inc. in the U.S. and other countries. Copyright 2002 Ziff Davis Media Inc. All Rights Reserved. All products used in the tests were shipping versions available to the general public. The battery life results were achieved running the Business Winstone® 2002 BatteryMark™ Version 1.0 on the following system parameters. System parameters were set according to Ziff Davis Media Inc.'s recommendations.

NW2.8G(800MHz) w/HT,17"WXGA,256MB+256MB,60GB(4200rpm),DVD-R/-RW,1394/FIR,802.11b(Agere), No BT Antenna, NV34M(32MB), 12cell, harma

| | | |
|---|---|---|
| Battery Life | Catalog Spec (1st) | 2.0H |
| | (1st+2nd) | - |
| | Number of Conditioning Phase | 1 |
| | Life Test Run | 2 |

| | | | |
|---|---|---|---|
| A | CPU Name | | Intel® Pentium®4 Processer |
| | Processor info | speed | 2.8GHz |
| | | number of processors | 1 |
| | amount of RAM | | 512MB |
| | Amount of secondary RAM cache | | 512KB |

| | | | |
|---|---|---|---|
| B | Battery | type(1st) | Li-Ion |
| | | | 14.8Vx6450mAh(12cell) |
| | | model number(1st) | PA3291U-1BAS/1BRS |
| | | type(2nd) | - |
| | | | - |
| | | model number(2nd) | - |
| | | number of batteries | 1st=1 , 2nd=0 |

| | | |
|---|---|---|
| C | Graphics | nVIDIA NV34M |
| | amount and type of RAM | 32MB |
| | | DDR |
| | graphics driver name and version | nVIDIA Display Driver for NV34M |
| | graphics resolution and color depth, refresh rate | 17"Wide 1440x900/32bit/60Hz |

| | | |
|---|---|---|
| D | hard disk capacity | 60GB (4200rpm) |
| | hard disk file system & transfer mode+C15 | Enhanced IDE(ATA-5) |
| | hard disk controller model | Intel® 82801EBM |
| | size of hardware cache if any | - |

| | | |
|---|---|---|
| E | operating system version, service pack | Windows XP Professional Savice Pack 1 |
| | other special conditions | N/A |

| | | |
|---|---|---|
| F | BIOS version | **V0.10** |
| | Power management setting | see another sheet |